



# San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT



SEP 21 2011

Paul Combs  
Crimson Resource Management  
4002 California Ave.  
Bakersfield, CA 93309

**Re: Notice of Minor Title V Permit Modification  
District Facility # S-2918  
Project # 1113293**


Dear Mr. Combs:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued S-2918-1-5 into the Title V operating permit. The ATC is to increase a flare's daily produced gas incineration limit, add rule 4311 conditions and correct the location.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued S-2918-1-5, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura at (661) 392-5500.

Sincerely,

  
David Warner  
Director of Permit Services

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



# San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT



SEP 21 2011

Gerardo C. Rios, Chief  
Permits Office  
Air Division  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

Re: **Notice of Minor Title V Permit Modification**  
**District Facility # S-2918**  
**Project # 1113293**

Dear Mr. Rios:

Enclosed for you to review is an application for minor Title V permit modification for the facility identified above. Crimson Resource Management is proposing a Title V minor permit modification to incorporate the recently issued S-2918-1-5 into the Title V operating permit. The ATC is to increase a flare's daily produced gas incineration limit, add rule 4311 conditions and correct the location.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued S-2918-1-5, emission increases, application, and previous Title V permit. Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura at (661) 392-5500.

Sincerely,

David Warner  
Director of Permit Services

Enclosures

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Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585

# TITLE V APPLICATION REVIEW

Minor Modification  
Project #: S-1113293

Engineer: David Torii  
Reviewing Engineer: ~~Rich Karris~~ *AP SUPR ARE*  
Date: SEP 20 2011

Facility Number: S-2918  
Facility Name: Crimson Resource Management  
Mailing Address: 4002 California Ave.  
Bakersfield, CA 93309

Contact Name: Paul Combs  
Phone: 661-716-5001

Responsible Official: Paul Combs  
Title: EH&S Manager

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## I. PROPOSAL

Crimson Resource Management (Crimson) is proposing a Title V minor permit modification to incorporate ATC S-2918-1-5 into their Title V operating permit. The ATC is to increase a flare's daily produced gas incineration limit, add rule 4311 conditions and correct the location. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

## II. FACILITY LOCATION

The equipment is located in Crimson's Light Oil Central stationary source, Kern County.

## III. EQUIPMENT DESCRIPTION

## IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

## V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

## VI. DESCRIPTION OF PROPOSED MODIFICATIONS

The Changes in the original Permit to Operate and the implemented ATC are as follows:

Condition #'s on current PTO S-2918-1-3 that were removed	New conditions on proposed PTO S-2918-1-6	Reason for Change from Current PTO
-	9-13	Rule 4311 requirements

Condition #'s on current PTO S-2918-1-3 that were revised	New conditions on proposed PTO S-1547-723-19	Reason for Change from Current PTO
1		location corrected

## VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which

the source would otherwise be subject. Such terms and conditions include;

- a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
  - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
  6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

# ATTACHMENT A

## Proposed Modified Title V Operating Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-2918-1-6

**EXPIRATION DATE:** 06/30/2005

**EQUIPMENT DESCRIPTION:**

32.5 MMBTU/HR NATIONAL AIR OIL BURNER CO. MODEL NAFV FLARE WITH AUTOMATIC SPARK IGNITED PILOT AND COMBUSTION AIR BLOWER (GREELEY LEASE)

## PERMIT UNIT REQUIREMENTS

1. The flare is approved to operate at the following locations; Sec. 14, T30S, R27E and Sec. 7, T29S, R26E. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Flare shall be equipped with recording operational flow meter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Natural gas shall be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sulfur concentration of gas flared shall not exceed 5 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Air contaminant emissions shall not exceed the following limits: PM10: 0.0202 lb/MMBtu, ; NOx (as NO2): 0.068 lb/MMBtu, CO: 0.37 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Non breakdown operation shall not exceed 1000 Mscf per day and 2045 Mscf per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070] Federally Enforceable Through Title V Permit
8. Permittee shall maintain accurate records of quantity of non-emergency/non-pilot gas combusted in the flare and shall make such records available to District staff upon request. Records shall be maintained for a period of no less than five years. [District Rule 1070 and District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
9. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting the presence of at least one pilot flame or the flare flame, shall be installed and operated. [District Rule 4311] Federally Enforceable Through Title V Permit
10. A flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
11. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
12. If the flare uses a flow-sensing automatic ignition system and does not use a continuous flame pilot, the flare shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
13. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

14. {649} Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)] Federally Enforceable Through Title V Permit
15. {650} Demonstration of compliance with the visible emissions limit of this permit shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)] Federally Enforceable Through Title V Permit
16. {651} A trained observer, as defined in EPA Method 22, shall check visible emissions at least once every two weeks for a period of 15 minutes. If visible emissions are detected at any time during this period, the observation period shall be extended to two hours. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. {520} The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
18. {652} The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. {653} Actual flare emissions shall not exceed 20 tons VOC/year. Process information, including fuel usage data for the flare and process rates for operations controlled by the flare, shall be submitted to the District annually to demonstrate compliance with this requirement. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
20. Flares shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater if the flare is air-assisted or steam-assisted. [40 CFR 60.18 (c)(3)] Federally Enforceable Through Title V Permit
21. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using EPA Method 18, ASTM D1946, and ASTM D2382. [40 CFR 60.18 (f)(3-6)] Federally Enforceable Through Title V Permit
22. {656} Air-assisted flares shall be operated with an exit velocity less than  $V_{max}$ , as determined by the equation specified in paragraph 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5)] Federally Enforceable Through Title V Permit
23. {660} The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4)] Federally Enforceable Through Title V Permit
24. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)] Federally Enforceable Through Title V Permit
25. To show compliance with sulfur emission limits, the gas being flared shall be tested weekly for sulfur content. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for the flared gas, then the compliance testing frequency shall be semi-annually. If the semi-annual sulfur content test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
26. The sulfur content of the gas being flared shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.



# ATTACHMENT B

## Authority to Construct

San Joaquin Valley  
Air Pollution Control District

## AUTHORITY TO CONSTRUCT

PERMIT NO: S-2918-1-5

ISSUANCE DATE: 03/04/2011

LEGAL OWNER OR OPERATOR: CRIMSON RESOURCE MANAGEMENT

MAILING ADDRESS: ATTN: ENVIR H & S ENGINEER  
5001 CALIFORNIA AVE, SUITE #206  
BAKERSFIELD, CA 93309

LOCATION: LIGHT OIL CENTRAL STATIONARY SOURCE  
KERN COUNTY, CA

SECTION: 14 TOWNSHIP: 30S RANGE: 27E

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 32.5 MMBTU/HR NATIONAL AIR OIL BURNER CO. MODEL NAFV FLARE WITH AUTOMATIC SPARK IGNITED PILOT AND COMBUSTION AIR BLOWER (PANAMA AND GREELEY LEASES): INCREASE DAILY PRODUCED GAS INCINERATION LIMIT, ADD RULE 4311 CONDITIONS AND CORRECT LOCATION TO SECTION 14, T30S, R27E

## CONDITIONS

1. {1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. The flare is approved to operate at the following locations; Sec. 14, T30s, R27E and Sec. 7, T29s, R26E. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Flare shall be equipped with recording operational flow meter. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Natural gas shall be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Sulfur concentration of gas flared shall not exceed 5 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Air contaminant emissions shall not exceed the following limits: PM10: 0.0202 lb/MMBtu, ; NOx (as NO2): 0.068 lb/MMBtu, CO: 0.37 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

S-2918-1-5: Sep 15 2011 1:54PM - TORID : Joint Inspection NOT Required

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

7. Non breakdown operation shall not exceed 1000 Mscf per day and 2045 Mscf per year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070] Federally Enforceable Through Title V Permit
9. Permittee shall maintain accurate records of quantity of non-emergency/non-pilot gas combusted in the flare and shall make such records available to District staff upon request. Records shall be maintained for a period of no less than five years. [District Rule 1070 and District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
10. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting the presence of at least one pilot flame or the flare flame, shall be installed and operated. [District Rule 4311]
11. A flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
12. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
13. If the flare uses a flow-sensing automatic ignition system and does not use a continuous flame pilot, the flare shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
14. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
15. {649} Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)] Federally Enforceable Through Title V Permit
16. {650} Demonstration of compliance with the visible emissions limit of this permit shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)] Federally Enforceable Through Title V Permit
17. {651} A trained observer, as defined in EPA Method 22, shall check visible emissions at least once every two weeks for a period of 15 minutes. If visible emissions are detected at any time during this period, the observation period shall be extended to two hours. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
18. {520} The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
19. {652} The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
20. {653} Actual flare emissions shall not exceed 20 tons VOC/year. Process information, including fuel usage data for the flare and process rates for operations controlled by the flare, shall be submitted to the District annually to demonstrate compliance with this requirement. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
21. Flares shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater if the flare is air-assisted or steam-assisted. [40 CFR 60.18 (c)(3)] Federally Enforceable Through Title V Permit
22. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using EPA Method 18, ASTM D1946, and ASTM D2382. [40 CFR 60.18 (f)(3-6)] Federally Enforceable Through Title V Permit
23. {656} Air-assisted flares shall be operated with an exit velocity less than  $V_{max}$ , as determined by the equation specified in paragraph 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5)] Federally Enforceable Through Title V Permit

DRAFT  
CONDITIONS CONTINUE ON NEXT PAGE

24. {660} The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4)] Federally Enforceable Through Title V Permit
25. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)] Federally Enforceable Through Title V Permit
26. To show compliance with sulfur emission limits, the gas being flared shall be tested weekly for sulfur content. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for the flared gas, then the compliance testing frequency shall be semi-annually. If the semi-annual sulfur content test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. The sulfur content of the gas being flared shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

DRAFT



# ATTACHMENT C

## Emissions Increases

SSIPE (lb/yr)				
NOx	VOC	CO	SOx	PM10
0	0	0	0	0

# ATTACHMENT D

## Current Title V Operating Permit



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-2918-1-3

**EXPIRATION DATE:** 06/30/2005

**SECTION:** 15 **TOWNSHIP:** 30S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

32.5 MMBTU/HR NATIONAL AIR OIL BURNER CO. MODEL NAFV FLARE WITH AUTOMATIC SPARK IGNITED PILOT AND COMBUSTION AIR BLOWER (GREELEY LEASE)

## PERMIT UNIT REQUIREMENTS

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1. The flare is approved to operate at the following locations; Sec. 15, T30s, R27E and Sec. 7, T29s, R26E. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Flare shall be equipped with recording operational flow meter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Natural gas shall be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sulfur concentration of gas flared shall not exceed 5 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Air contaminant emissions shall not exceed the following limits: PM10: 0.0202 lb/MMBtu, ; NOx (as NO2): 0.068 lb/MMBtu, CO: 0.37 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Non breakdown operation shall not exceed 300 Mscf per day and 2045 Mscf per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070] Federally Enforceable Through Title V Permit
8. Permittee shall maintain accurate records of quantity of non-emergency/non-pilot gas combusted in the flare and shall make such records available to District staff upon request. Records shall be maintained for a period of no less than five years. [District Rule 1070 and District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
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12. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
14. Actual flare emissions shall not exceed 20 tons VOC/year. Process information, including fuel usage data for the flare and process rates for operations controlled by the flare, shall be submitted to the District annually to demonstrate compliance with this requirement. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
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16. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using EPA Method 18, ASTM D1946, and ASTM D2382. [40 CFR 60.18 (f)(3-6)] Federally Enforceable Through Title V Permit
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18. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4)] Federally Enforceable Through Title V Permit
19. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)] Federally Enforceable Through Title V Permit
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21. The sulfur content of the gas being flared shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.



# ATTACHMENT E

## Application

# San Joaquin Valley Air Pollution Control District

www.valleyair.org

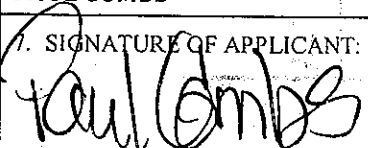
RECEIVED

## Permit Application For:

JUL 05 2011

[ ] ADMINISTRATIVE AMENDMENT [X] MINOR MODIFICATION [ ] SIGNIFICANT MODIFICATION

SJVAPCD  
Southern Region

1. PERMIT TO BE ISSUED TO: CRIMSON RESOURCE MANAGEMENT	
2. MAILING ADDRESS:  STREET/P.O. BOX: 5001 CALIFORNIA AVENUE, SUITE 206  CITY: BAKERSFIELD STATE: CA 9-DIGIT ZIP CODE: 93309	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:  STREET: CITY:  ¼ SECTION 14 TOWNSHIP 30S RANGE 27E	INSTALLATION DATE: 06/28/2011
4. GENERAL NATURE OF BUSINESS: CRUDE OIL PRODUCTION	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)  S-2918-1-5: 32.5 MMBTU/HR FLARE WITH AIR BLOWER	
6. TYPE OR PRINT NAME OF APPLICANT: PAUL COMBS	TITLE OF APPLICANT: EH&S MANAGER
7. SIGNATURE OF APPLICANT: 	DATE: 7/1/11 PHONE: (661) 716-5001 FAX: (661) 716-5008 EMAIL: sfaulkenburg@ix.netcom.com

For APCD Use Only:

EnumaTech

DATE STAMP	FILING FEE RECEIVED: \$ 19- CHECK#: 3544
	DATE PAID: PM 7/5/11
	PROJECT NO: 8-1113293 FACILITY ID: S-2918

TV MM

RECEIVED  
JUL 05 2011  
SJVAPCD  
Southern Region

San Joaquin Valley  
Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

☐ SIGNIFICANT PERMIT MODIFICATION  
☒ MINOR PERMIT MODIFICATION

☐ ADMINISTRATIVE  
AMENDMENT

COMPANY NAME: CRIMSON RESOURCE MANAGEMENT	FACILITY ID: S - 2918
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: CRIMSON RESOURCE MANAGEMENT	
3. Agent to the Owner: PAUL COMBS	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- ☒ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- ☒ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- ☒ Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- ☒ Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the foregoing is correct and true:

Paul Combs  
Signature of Responsible Official

7/1/11  
Date

PAUL COMBS

Name of Responsible Official (please print)

EH&S MANAGER

Title of Responsible Official (please print)